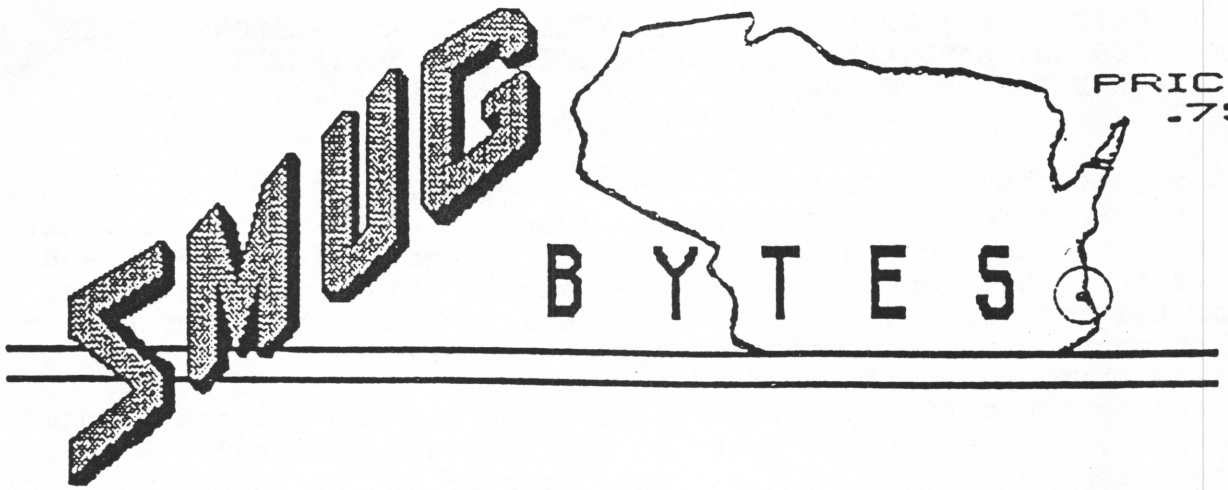

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THIS MONTH:

- *RGB To NTSC converter*
- *Whats New With The Fest*
- *Digitizer - It's Here*
- *Presidents Message*
- *And Other Great Things*

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NEXT MEETING DATE: 3/07/90

Send all contributions by the 3rd Wednesday of the month to:

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The RGB To NTSC Converter In Other Words Rock Solid Video

by Marty Miller

Well I am only 3 months late with this but here is the article I promised. I would like to introduce you to an RGB to NTSC converter that works on the TS2068. I am talking about a 3" by 2" circuit board that puts out composite video so clean that you will have a hard time telling the difference from an RGB monitor. There is not a bit of background hash in the picture at all. 80 column text or your highest resolution game looks great even on a 45" wide screen TV.

The converter is designed around the MC1377 IC and is described in the December issue of Radio Electronics. The author originally wrote the article around the Apple and IBM computer's but it will work on any RGB source. The TS2068 is ideal. You will of course need 12 volts for power and a sync signal. The AERCO and JLO expansion's have sync available. I am not familiar with the other systems we have out there.

I am using the JLO DOS and mounted the 3" by 2" board vertically at the left hand corner of the expansion board. A female "Video Output" connector can be mounted on the left edge next to the second slot. I also mounted the 7812 regulator right in 3 of the existing holes to the left of the third slot. The input to the regulator is taken directly from the 15-18 volt bus on the expansion board. More info get the December issue of Radio Electronics or mail to RGB, 32 Wilson Ave., Trumbull, CT 06611 or call (203) 374-7634.

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"SQ" NOTES

BY R.A.HILSMANN

This month I would like to share a program with you, which I am using since 1982, when I wrote it to keep my Checkbook balanced. Originally I wrote it for the ZX81, but I have since refined most routines, and converted it in 1984 for the 2068.

This Checkbook & Budget Manager is written in basic, but I have a version which is ready to be compiled, and also a version which can be burned to eprom to fit into the carthridge slot on your 2068. Needless to say, I still have a working version for the ZX81 or TS1000. If you feel you do not like to enter a 16K basic program by keyboard, or would like to have this program burned to Eprom, or perhaps wish to use a compiled version, I will be glad to send you a copy if you send $5 ($10 for the program burned to Eprom) with a note which version you prefer, to:

R. A. HILSMANN
P.O. BOX 45
MEN. FALLS, WI. 53051

Also let me know if you would like it on Tape or Disk (Oliger only), and if disk, which format (80/40 track etc.). This program can be easely converted to any other disk-system of course, but since I am not familiar with all other systems in use for the 2068, I will let you do the converting.

Enter the program as it is listed, do not change the line numbers since this may cause problems with gosub's & go to's. The whole program will come in three parts, because of its length, and I will explain the workings of it with the last portion in this Newsletter. There are also a bunch of lines containing hidden Flash codes etc. I will have a list of those lines with the last issue of this program as well. Have fun, and "yes" it's worth it.

```
  10 LET L=SGN PI: LET K=L
  20 LET T=VAL "10": GO SUB VAL
"80": GO SUB BP: PRINT AT T,0;"E
NTER PAPER COLOR <0 TO 7>  ": PA
USE 0: LET S=VAL INKEY$: LET F=0
: POKE VAL "23609",VAL "5": POKE
 VAL "23658",VAL "8": BORDER S:
PAPER S: INK VAL "9": CLS : DIM
B$(VAL "32"): GO SUB LO
  30 GO SUB BP: INPUT "ENTER TOD
AYS DATE = <MM/DD/YY>",AT T,0;I$
: GO SUB BP: IF K THEN PRINT '"D
O YOU WISH TO LOAD DATA (Y/N)":
PAUSE 0: IF INKEY$="Y" THEN GO T
O VAL "7010"
  40 IF NOT K THEN GO TO VAL "80
0"
  50 GO SUB BP: INPUT "HOW MANY
TRANSACTIONS DO YOU"'"WISH THIS
PROGRAM TO PROCESS"''"500 max.",
AT VAL "6",0;D: GO SUB VAL "70":
 GO SUB BP: INPUT "NOW ENTER YOU
R STARTING BALANCE ",AT VAL "6",
0;"$ ";C: LET G=C: GO SUB GE: LE
T E$(VAL "1",VAL "30" TO VAL "38
")=M$: IF F THEN RETURN
  60 LET FL=SGN PI: GO TO VAL "1
050"
  70 DIM E$(D+VAL "2",VAL "41"):
 LET U=0: LET M=0: LET X=VAL "2"
: LET C=0: LET O$=" NEW REGISTER
"
  80 DIM D$(8): LET O=BIN : LET
KY=VAL "190": LET ZE=VAL "180":
LET AC=VAL "110": LET DL=VAL "90
": LET LO=VAL "100": LET ZO=VAL
"140": LET LI=VAL "150": LET LS=
VAL "400": LET BP=VAL "160": LET
 GE=VAL "200": LET FL=0: LET FG=
0: LET MENU=VAL "800": RETURN
  90 BEEP .05,1: BEEP .08,7: BEE
P .08,20: RETURN
 100 PRINT AT 0,0;B$;B$;B$;"   C
HECKBOOK & BUDGET MANAGER   ";B$
;"                © 1982 IMPEX
  ";B$;B$;B$;B$;B$;B$: PLOT 0,165:
DRAW 255,0: DRAW 0,-50: DRAW -25
5,0: DRAW 0,50: RETURN
 110 LET A=0: FOR /Z TO N: PRINT
 AT A,0;T$(L, TO 16);AT A,16;T$(
L+1, TO 16): LET A=A+1: LET L=L+
1: NEXT : IF F THEN GO TO 130
 120 PLOT 0,80: DRAW 255,0: DRAW
 0,95: DRAW -255,0: DRAW 0,-95:
RETURN
 130 PLOT 0,151: DRAW 255,0: DRA
W 0,24: DRAW -255,0: DRAW 0,-24:
 RETURN
 140 PRINT "    PRESS ""0""(ZERO
) TO EXIT    "
 150 PRINT "═══════════════════
═══════════": RETURN
 160 BEEP .08,35: RETURN
 170 PRINT AT 0,0;"PRESS <ANY KE
Y> TO ENTER DATA   PRESS <1> (ON
E) TO CORRECT DATA ": RETURN
 180 PRINT "      TYPE ""0""(ZERO
) TO EXIT      ": RETURN
 190 PRINT "    PRESS ANY KEY TO
 CONTINUE    ": RETURN
 200 DIM M$(9): LET M$(1)="$": L
ET R=INT (G*100+.5): LET R$="":
LET R$=STR$ R: IF NOT R THEN LET
 R$="000"
 210 IF R<10 THEN IF R>0 THEN LE
T R$="00"+STR$ R
```

```
 220 IF R<100 THEN IF R>9 THEN L
ET R$="0"+STR$ R
 230 LET M$(LEN M$-LEN R$ TO )=R
$( TO LEN R$-2)+"."+R$(LEN R$-1
TO ): RETURN
 400 PRINT AT VAL "16",0;" LIST
TO PRINTER <Y/N>": PAUSE 0: IF I
NKEY$="Y" THEN LET W=INT PI
 410 RETURN
 500 CLS : GO SUB BP: LET D$=I$(
TO 5)
 510 LET Z=1: LET N=28: GO SUB A
C
 520 INPUT "ENTER CATEGORY YOU W
ISH TO VIEW";AT 5,0;A$: IF A$=""
 THEN GO TO VAL "520"
 530 PRINT AT 12,0;B$;B$: LET V=
1: LET FG=V: GO SUB 2220: LET V=
0: LET FG=0: IF FL THEN RETURN
 540 PRINT #0;"PRESS ""P"" FOR P
RINTOUT"''"          ""M"" TO RETURN
 TO MENU": PAUSE 0: IF INKEY$="P
" THEN COPY
 550 IF INKEY$="M" THEN GO TO ME
NU
 560 RETURN
 800 CLS : INK 9: BORDER 5: PRIN
T ; PAPER 1;"***CHECKBOOK & BUDG
ET MANAGER***"; PAPER 0;"[illegible]
[illegible]"; PAPE
R 2;"***** ";D+2-X;" TRANSACTION
S LEFT *****": PAPER 5: PRINT AT
 3,0;"PRESS";AT 5,0;"  1) TO VIE
W STATUS & ACCOUNTS"''"  2) TO E
NTER CHECKS (DEBITS)"''"  3) TO
ENTER DEPOSITS (CREDITS)"''"  4)
 TO LIST TRANSACTIONS"''"  5) TO
 BALANCE ACCOUNT"''"  6) TO RESE
T ACCOUNTS"''"  7) TO SAVE OR LO
AD DATA ": GO SUB LI: PRINT AT 1
9,0;" LAST UPDATE - ";O$''" TODA
YS DATE - ";I$: PLOT 0,159: DRAW
 0,-135: PLOT 255,159: DRAW 0,-1
35: GO SUB DL: PRINT #0;AT 1,0;"
ENTER CHOICE <1 TO 7>"
 810 PAUSE 0: LET K=CODE INKEY$-
48: IF K<1 OR K>7 THEN GO TO VAL
 "810"
 820 GO TO K*1E3
 830 GO TO MENU
1000 CLS : LET G=C: GO SUB GE: G
O SUB DL: GO SUB ZO: PRINT AT VA
L "5",0;"YOU HAVE MADE ";X-VAL "
2";" ENTRIES"''"LAST CHECK NO. E
NTERED ";E$(SGN PI,VAL "4" TO VA
L "7")''"LAST DEPOSIT NO. ENTERE
D ";E$(SGN PI,VAL "8" TO VAL "9"
)''"DATE OF LAST ENTRY ";E$(X-VA
L "1",VAL "5" TO VAL "9")''"YOUR
 BALANCE IS ";M$: PRINT AT VAL "
18",0;"TO ACCESS ACCOUNTS PRESS
ANY KEY": PRINT #0;AT SGN PI,0;"
ENTER CHOICE": PAUSE 0: IF INKEY
$="0" THEN GO TO VAL "800"
1010 CLS : GO SUB ZO: GO SUB BP:
 LET FL=0: PRINT AT T,0;" TO VIE
W ACCOUNT STATUS PRESS ""V""";AT
 VAL "15",0;"TO MAKE A CHANGE TO
 AN EXCISTINGACCOUNT TYPE ""C""
''"TO FORMAT NEW ACCOUNTS PRESS
""N""": PAUSE 0: IF INKEY$="N" T
HEN GO TO VAL "1050"
1020 IF INKEY$="C" THEN GO TO VA
L "1210"
1030 IF INKEY$="V" THEN LET F=0:
 GO SUB VAL "500": GO TO VAL "10
10"
1040 GO TO MENU
1050 CLS : GO SUB BP: PRINT AT V
AL "5",0;"THERE ARE  24 OUTGOING
 ACCOUNTS AND 4 INCOME ACCOUNTS
WHICH YOU CAN TITLE AND DIMENSIO
N"''"ENTER THE TITLE AND THE AMO
UNT"''"BUDGETED PER YEAR FOR ALL
ACC.": IF NOT FL THEN PRINT ''"
IF YOU CONTINUE ALL PRESENTLY
FORMATED ACCOUNTS AND THERE
    DATA WILL BE ERASED"'': GO S
UB ZO
1055 GO SUB KY: PAUSE 0: IF INKE
Y$="0" THEN GO TO VAL "1010"
1060 DIM T$(VAL "28",VAL "32"):
DIM O(VAL "28"): LET FL=0: LET B
=0: LET H=0: LET I=0: LET Z=0: L
ET A=VAL "65": CLS : PRINT AT T,
VAL "5";"one moment please": FOR
 /1 TO 28: LET T$(L, TO 5)=" ("+
CHR$ A+") ": LET T$(L,24 TO )="
    0.00": LET A=A+1: IF L=26 THE
N LET A=35
1070 NEXT : CLS : FOR J=SGN PI T
O VAL "28" STEP VAL "12": PRINT
"[illegible]
[illegible]": FOR /BIN TO VAL "11": GO SUB
 BP: PRINT AT L+SGN PI,0;T$(L+J,
 TO VAL "5"): INPUT "ENTER TITLE
 >";T$(L+J,VAL "6" TO VAL "21"):
 IF T$(L+J,VAL "6")="0" THEN LET
 T$(L+J,VAL "6")="": LET J=VAL "
13": LET L=VAL "12": GO TO VAL "
1130"
1080 IF T$(L+J,6)="*" THEN LET T
$(L+J,6)="": LET L=INT PI: GO TO
 VAL "1110"
1090 PRINT AT L+SGN PI,0;T$(L+J,
 TO VAL "21");: GO SUB BP: INPUT
 "ENTER YEARLY BUDGET >";G: GO S
UB GE: PRINT AT L+SGN PI,VAL "23
";M$: LET T$(L+J,VAL "23" TO )=M
$: IF Z<SGN PI THEN LET B=B+G: L
ET G=B: GO SUB GE: PRINT AT VAL
"20",VAL "17";"TOTAL ";M$;AT VAL
 "21",0;"ENTER ""0"" WHEN FINISH
ED!                "
1100 IF Z=SGN PI THEN LET H=H+G:
 LET G=H: GO SUB GE: PRINT AT VA
L "20",VAL "17";"TOTAL ";M$;AT V
AL "21",0;"ENTER ""*"" WHEN FINI
SHED!              "
1110 IF J+L=VAL "28" THEN GO TO
VAL "1160"
1120 NEXT
1130 IF J+L>VAL "24" THEN GO TO
VAL "1150"
1140 CLS : NEXT J
1150 GO SUB BP: GO SUB BP: LET Z
=1: CLS : PRINT "NOW TITLE THE I
NCOME-CATEGORYS  AND ENTER THE A
VERAGE AMOUNT OF YEARLY INCOME Y
OU EXPECT FOR    EACH CATEGORY"'
': GO SUB KY: PAUSE 0: CLS : PRI
NT "[illegible]
[illegible]": CLS : NEXT J
1160 CLS : LET G=H: GO SUB GE: P
RINT AT T,0;"TOTAL EXPECTED INCO
ME :";M$: LET G=B: GO SUB GE: PR
INT '"TOTAL AMOUNT BUDGETED :";M
$: IF H>B THEN LET I=H-B
1170 IF B>H THEN LET I=B-H: PRIN
T AT VAL "14",VAL "17";"OVER"
1180 LET G=I: GO SUB GE: PRINT A
T VAL "13",VAL "23";"_____ R
ESERVE";AT VAL "14",VAL "23";M$:
 GO SUB BP: PRINT '';: GO SUB Z
O: PRINT " FOR PRINTOUT PRESS ""
P""": PAUSE 0: IF INKEY$="P" THE
N COPY
```

```
1190 IF F=SGN PI THEN RETURN
1200 GO TO VAL "1010"
1210 CLS : LET F=0: LET Z=SGN PI
: LET N=VAL "28": GO SUB AC: INP
UT "ENTER LETTER IN FRONT OF
    CATEGORY TO BE CHANGED";AT V
AL "4",0; FLASH SGN PI;A$: LET H
=0: LET B=0: FOR /=SGN PI TO VAL
"28": IF A$=T$(L,INT PI) THEN LE
T J=L
1220 IF L<VAL "25" THEN LET B=B+
VAL T$(L,VAL "24" TO )
1230 IF L>VAL "24" THEN LET H=H+
VAL T$(L,VAL "24" TO )
1240 NEXT : LET W=B: CLS : LET L
=J: LET FL=SGN PI: GO SUB VAL "5
30": LET FL=0: PRINT AT VAL "14"
,0;: GO SUB ZE: PRINT AT VAL "19
",0;T$(L): LET B=W: GO SUB BP: I
NPUT "ENTER TITLE >";0$: IF 0$="
0" THEN GO TO VAL "1010"
1250 LET T$(L,VAL "6" TO VAL "22
")=0$: PRINT AT VAL "19",VAL "5"
;0$: LET F=VAL T$(L,VAL "24" TO
): GO SUB BP: INPUT "ENTER AMOUN
T >";G: IF T$(L,INT PI)="Y" OR T
$(L,INT PI)="Z" OR T$(L,INT PI)=
"#" OR T$(L,INT PI)="$" AND G>F
THEN LET H=H+(G-F): GO TO VAL "1
290"
1260 IF T$(L,INT PI)="Y" OR T$(L
,INT PI)="Z" OR T$(L,INT PI)="#"
 OR T$(L,INT PI)="$" THEN IF G<F
 THEN LET H=H-(F-G): GO TO VAL "
1290"
1270 IF G>F THEN LET B=B+(G-F)
1280 IF G<F THEN LET B=B-(F-G)
1290 GO SUB GE: PRINT AT VAL "19
",VAL "22";M$: LET T$(L,VAL "23"
 TO )=M$: PAUSE VAL "100": GO SU
B VAL "1160": GO TO VAL "1010"
2000 CLS : LET F=0: GO SUB DL
2005 PRINT AT 11,0;"LAST ENTRY N
UMBER ";: IF NOT F THEN PRINT E$
(1,4 TO 7)
2006 IF F THEN PRINT E$(1,8 TO 9
)
2010 FOR X=X TO D+1: GO SUB LO: '
LET L$=STR$ (X-1): PRINT AT 21,2
6-LEN L$;"ENTRY ";X-1: LET G=C:
GO SUB GE
2030 PRINT AT 20,0;: GO SUB ZE:
PRINT AT 18,0;B$;AT 17,15;"BALAN
CE ";M$: IF G=1 THEN PRINT AT 17
,5;" >>> OVERDRAWN <<<"
2040 IF NOT F THEN GO TO 2060
2050 PRINT PAPER 2;AT 19,0;"NO.
 DATE  SOURCE          AMOUNT ": G
O SUB BP: INPUT "DEPOSIT NO. >";
 LINE E$(X, TO 2): IF F THEN GO
TO 2070
2060 PRINT PAPER 2;AT 19,0;"NO
 DATE  DESCRIPTION   AMOUNT ": G
O SUB BP: INPUT "CHECK NO.>"; LI
NE E$(X, TO 4): IF X=(D+1) THEN
PRINT FLASH 1;AT 20,0;"REGISTER
FILLED AFTER THIS ENTRY": BEEP .
8,35: PAUSE 200
2070 PRINT PAPER 1;AT 20,0;B$: I
F E$(X,1)="0" THEN GO TO MENU
2090 GO SUB BP: PRINT AT 8,0;"To
 edit previous ENTRY enter ""*""
": PRINT AT 18,0;E$(X, TO 4): IN
PUT "DATE >"; LINE E$(X,5 TO 9):
 IF E$(X,5)="*" THEN GO TO VAL "
2060-F*10"
2110 PRINT AT 18,5;E$(X,5 TO 9):
 GO SUB BP
2120 INPUT "DESCRIPTION >"; LINE
 E$(X,T TO 21): IF E$(X,T)="*" T
HEN GO TO 2090
2140 GO SUB BP: PRINT AT 18,11;E
$(X,10 TO 21): INPUT "AMOUNT >";
 LINE D$: IF D$(1)="*" THEN GO T
O 2120
2150 LET G=VAL D$: GO SUB GE: PR
INT AT 18,23;M$: LET E$(X,22 TO
30)=M$: LET I=G: GO SUB BP: GO S
UB 170: GO SUB BP: PRINT #0;AT 1
,0;"↑ CONFIRM ↑": PAUSE 0: IF IN
KEY$="1" THEN GO SUB LO: PRINT A
T 18,0;B$: GO TO VAL "2060-F*10"
2170 GO SUB BP: LET D$=E$(X,5 TO
 9): IF INKEY$="*" THEN GO TO 21
40
2180 IF NOT F THEN LET Z=1: LET
N=24: LET E$(1,4 TO 7)=E$(X, TO
4): GO SUB AC
2190 IF F THEN LET Z=25: LET N=2
8: LET E$(1,8 TO 9)=E$(X, TO 2):
 GO SUB AC
2200 LET V=0: PRINT AT 20,0;"Ent
er  >  to view account status":
GO SUB BP: INPUT "CATEGORY >";A$
: IF A$="=" THEN LET V=1: INPUT
"CATEGORY TO VIEW >";A$
2205 IF A$=" " THEN GO TO 2360
2210 PRINT AT 20,0;B$: IF NOT V
THEN LET E$(X,40)=A$
2220 IF D$(2)="/" THEN GO TO 224
0
2230 LET B=VAL D$(1 TO 2): GO TO
 2250
2240 LET B=VAL D$(1)
2260 FOR /1 TO 28: IF A$=T$(L,3)
 THEN IF V=1 THEN GO TO 2290
2270 IF A$=T$(L,3) THEN IF NOT V
 THEN LET O(L)=O(L)+I: GO TO 229
0
2280 NEXT : IF L>28 THEN GO TO 2
360
2290 LET P=((VAL T$(L,24 TO ))/1
2)*B: PRINT AT 0,0;B$;B$;B$;B$;B
$;B$;B$;B$;B$;B$;B$;B$: IF O(L)>
P THEN PRINT AT 6,28;"OVER"
2300 LET G=VAL T$(L,24 TO )/12:
GO SUB GE: PRINT AT 1,1;T$(L, TO
 21)'" YEARLY BUDGET : ";T$(L,23
 TO )'" MONTHLY BUDGET: ";M$: LE
T G=P-O(L): GO SUB GE: DIM G$(12
,3): RESTORE 2310: FOR K=1 TO B:
 READ G$(K, TO 3): NEXT K
2310 DATA "JAN","FEB","MAR","APR
","MAY","JUN","JUL","AUG","SEP",
"OCT","NOV","DEC": PRINT AT 6,1;
"BALANCE FOR ";G$(B);"  ";M$: LE
T G=(VAL T$(L,24 TO ))-O(L): GO
SUB GE: IF O(L)>VAL T$(L,24 TO )
 THEN PRINT AT 8,28;"OVER"
2320 PRINT AT 8,1;"BALANCE FOR Y
EAR:";M$;AT T,0;: GO SUB KY: GO
SUB 120: IF FG THEN RETURN
2330 PAUSE 7E2: IF NOT V THEN LE
T E$(X,41)="0"
2340 IF V THEN GO TO 2200
2350 LET G=C
2360 IF NOT F THEN LET C=C-I
2370 IF F THEN LET C=C+I
2380 IF I>0 AND C=G THEN GO TO 2
360
```

For You TS2068 Gammers

Well last Wednesday I just saw the game of the year, or maybe more. It's for the Spectrum and it's called, drum roll please, Sentinal. The idea of the game is a unique one. You are placed on a 3D playing area with mountains and valleys. You must not let the Sentinal see you or he will absorb you and you will DIE. There are trees, rocks and robots around for you to absorb. There are two problems the first is absorbing these items. You can only absorb them if you can see the base of the object. The other problem is movement. You move by placing one of your robots some where and jumping to it. While doing all this you must keep an eye out for the Sentinal. It is a good blend of skill, brains and quick thinking.

More Expo News

Our mailing has gone out to all you out there. I hope you got a flyer and will come. If you can't make it please pass the flyer on to another Sinclairite or potential Sinclairite. If you didn't get a flyer and would like one please contact me. I am also working with the SNUG library and will pass on the updated mailing list to them. Hopefully this will help SNUG to expand their base and continue helping all of us Sinclair users and vendors to keep on computing.

When I mailed out the flyers I forgot to mention the special price offered for the room. It is suposed to be $45 for the room per night. If you have more in the room the cost will NOT go up. If you need extra beds there will be a charge. Remember you must call the motel directly to reserve a room.

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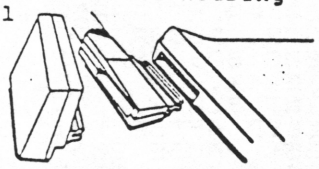

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The Digitizer and What's Happening

Well we have been assembling checking and every thing else necessary to put them together. Please note when I say we I am not including myself. Marty Miller, Dick Cultice, Gorden Kraemer and Neal Schultz have been doing the work. I just report it.

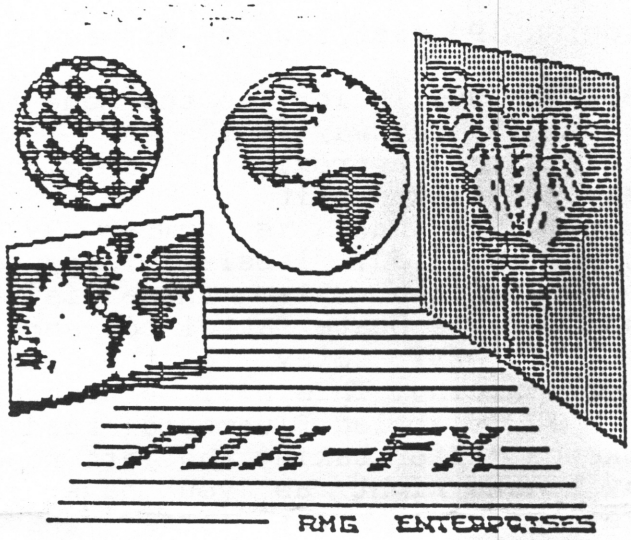
All boards have been shipped. If you ordered a board, and payed for it, and have not received it, please let us know. Just send us your name, address, what you ordered and a copy of your check or money order. Please include a copy of both sides. We will then check out the problem and remedy it.

For anyone who is not sure of the price the bare board costs $19.95 plus $3 for shipping and handling. The fully populated board costs $49.95 plus $3 for shipping and handling. If you want a feed thru connector add $5. The feedthru is not necessary if you use a motherboard. But is necessary if you want to connect to the TS2068 Back bus.

PRESIDENTS MESSAGE

Members please try to attend the next meeting. I don't want to exclude none members either but we need to set up our Expo committees and need your help. If you are not there you may miss the one you want and be on one you may not be good at.

Digitizers have been mailed and hopefully you have yours. If you don't please contact us. Include a copy of the canceled check. The following list of swaps comming up:Sun April 8, 1990, Expo Center, Madison WI, $4 at door + parking.; Sat., May 5, 1990, Circle B Rec Center, Cedarburg WI $3 at door.



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PIX-FX IS HERE!

FINALLY! A 2068 program that will allow you to MANIPULATE-MODIFY-CREATE-SAVE SCREEN$
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****

The Expo From The North & West

First of all for you comming thru Chicago; if you miss the turnoff the next one is highway 164, exit 295, labeled Waukesha - Sussex. You can exit there, turn around and go back east. Use the following directions to find the east bound exit.

For those of you comming thru the Madison area and points north and west please follow these directions to the Expo.

Following I94 east towards Milwaukee:

The exit just prior to the one to use is 295, highway 164.
This exit is approximatly 2 miles west of the Expo exit.
The exit you want is number 297, highway 18 & JJ, labeled Bluemound Road & Waukesha. Also there is a sign for the State Patrol cop shop. Take exit 297. Stay to the left after exiting. This will be highway 18 & JJ, labeled Bluemound road & Waukesha. After taking the left road stay to the right as you have to take the first right. (It will have stop lights.) Follow this road, Klassow, to the Holiday Inn. If anyone has a problem finding it please call the Inn for directions and don't forget to look for the SMUG signs. See you in Milwaukee.

G I G O
Or In Otherwords
The Meeting

Very interesting meeting. Two things happend. First the members agreed to postpone the elections till after the Expo in June. The idea is to allow the current slate of officers & directors to continue working to put on the Expo without break. The second is Neal's announcement he will not run for president again. This means someone out there must take over. The election will be held at a meeting after the Expo. You will be notified as to time and place. We decided to go with the computer generated T-Shirts. Now we have to find an outlet for getting them on consignment. If you know of any places or have any ideas please attend the next meeting. In another paragraph is the phone list. Also when your membership expires. If you are not paid up see Pancho right away.

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Is the OKIMATE 20 the ULTIMATE TS2068 printer?

USE W/AERCO PRINTER I/F? Yes, if an IBM parallel Plug 'n Print cartridge is used.

OKI 20 FEATURES? The OKI 20 can print in NLQ, draft, pica, elite, fine, double width, italics, sub/superscript, & underline. Plain or thermal paper (tractor/friction feed) or acetate transparencies can be used.

COLOR SCREEN$ HARD-COPY? Yes!! "COLOR COPY" supports *FULL COLOR* and b/w SCREEN$ dumps & "PAINT & COPY" features *HI-RES MODE* coloring and copying.

CUSTOM CHARACTER SETS? Yes, downline loadable character sets of custom characters and graphics can be designed and transfered to an OKI 20. The utility software "OKI D.L.C.G." allows for easy design of custom char. sets and "OKI D.L.P.G." can transform a portion of a SCREEN$ picture into a downline loadable character set.

OKIMATE 20 EXPENSIVE? No, the OKI 20 & Plug 'n Print cart. are widely available for about $180.

For a print sample, info. on 2068 software for the OKI 20, and a list of OKI 20 dealers/prices, send a LSASE to:

John McMichael
1710 Palmer Dr.
Laramie, WY 82070

NEW! OKIMATE 10 SUPPORT

Double Your Video Digitizing Fun!

Multiply by three the enjoyment that can come from your S.M.U.G. Video Digitizer & TS2068 with this new software:

VIDEOTEX: Capture a video image from a VCR, video camera, etc., & view it in thirteen greyscale levels!

VIDEO 3-D: Creates a 3-D representation of a video image captured by VIDEOTEX in either normal 3-D or inverted 3-D. (See ad title for an example of the 3-D effect.) Four different Z-axis "depths" may be selected.

VIDEOCOPY: Only for owners of an OKIMATE 20 color printer with IBM parallel Plug 'n Print cartridge. Allows a video image captured by VIDEOTEX to be hardcopied in 13-level b/w greyscale or in color. Very colorful hi-res "modern art" depictions of the original b/w video image are automatically produced from a video data file. A color editor is available for custom "colorizing".

This software is priced at $9.95 post-paid each, and comes with complete user notes & video digitizing suggestions. Send LSASE for additional information and order form to:
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The Sinclair Milwaukee Users Group (SMUG)

We are a not-for-profit group devoted to serving the interests of those who own, use, and/or are interested in the Timex/Sinclair family of computers.

Editor and contact person is:
Bill Heberlein (414) 527 2191.

SMUG maintains a gratis exchange of newsletters with approximately 30 Users Groups across the U.S. and Canada. Clubs not sending newsletters for more than 6 months are removed from our mailing list.

Newsletter subscription is available for only $10 per year to non members or free with a club membership. A club membership is $20 per year for a family membership.

Advertising cost for 1/2 page ad runing for six months is $10. The ad copy may be changed each month but you must supply the copy.

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Milwaukee WI 53225
Address Correction Requested

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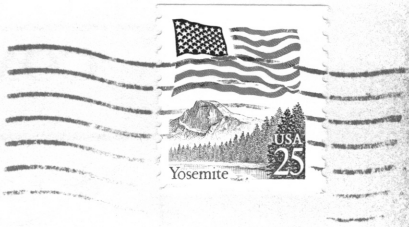

The next meeting of SMUG will be held on:
Wednesday, February 7,1990

6pm Set Up
6:30 Dues Collection (for late dues)
7:30 Business Meeting
8:30 View of Expo Designs
8:45 Discussion on Acceptable Ones
10:30 Clean Up

Location:
Equitable Savings and Loan,
145th and Capital Drive,
Milwaukee Wisconsin